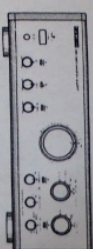


SANSUI SERVICE MANUAL

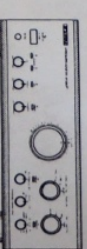
AU-907MR / MRX



AU-707MR / MRX



AU-607MR / MRX



HIGH GRADE STEREOPHONIC INTEGRATED AMPLIFIER

CAUTION (注意)

1. Parts identified the Δ symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current for resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.
 Δ 印がついている部品は、安全性を維持するために、重要な部品です。
これらの部品を交換する際には、必ず指定された部品を使用して下さい。

Notice / 告知

Table of Contents / 目次

The symbols OO and XX on the parts list and the schematic diagram mean followings respectively.

日本国向け製品専用部品には"OO"マークが付いて居ます。

OO Manufactured for Japanese market.

XX Standard Version.

*(EXPORT) * (Non Japanese market.)

XX-C Standard Version.

(For People's Republic of China market.)

XX-T Standard Version.

(For Republic of China market.)

Non Mark Common parts.

マークの無い部品は全仕向け共通です。

1	Caution / 注意書
1	Notice / 告知
1	Table of Contents / 目次
2	Specifications / 仕様 #1"
5	Schematic Diagram / 回路図 #2"
11	Adjustment / 調整方法 #3"
15	Interior Block Diagram & terminal Function of ICs / IC の内部図 #4"
16	Parts Location on Printed Circuit Board / 基板の部品配置図 #5"
24	Parts List of Printed Circuit Board / プリント基板の部品表 #6"
45	Mechanism Parts List / 機構部品表 #7"
48	Packing list / 梱包材部品表 #8"
	Accessories / 付属部品表 #9"

Model name markers "???" in top of any page indicate be written of this model here.

各頁上部に記載されて居ます機種名の **記号** は、その機種に属している記号が盛り込まれて居ることを示して居ます。

Ⓔ907MRX

Ⓔ907MR

1. SPECIFICATIONS / 仕様

1-1. AU - Ⓔ907MR and AU - Ⓔ907MRX

● Main Amplifier Section / 主増幅器部

Power band width / 帯域実効出力	
(at 10Hz ~ 20kHz & lesser than 0.003% total harmonics distortion)	
At each channel into 8Ω	160Wr.m.s.
At each channel into 6Ω	190Wr.m.s.
Total harmonics distortion (at 20Hz~20kHz) / 全高調波歪率	
At 160W output each channel into 8Ω	0.003%
At 95W output each channel into 6Ω	0.005%
Inter modulations distortion (at 60Hz, 7kHz = 4 : 1 input / 混交調歪率	
At 160W output each channel into 8Ω	0.003%
Damping factor (at 1kHz into 8Ω) / ダムプ・ファクタ	150
Frequency response (at 1W output) / 周波数特性	
D.C. ~ 300kHz ⁺³ dB	
Input sensitivity and impedance (at 1kHz) / 入力感度	1Vr.m.s. / 5kΩ
Signal to noise ratio (at 1W into I.H.F. - A202 network) / SN比	
Short circuit (Short their input terminals)	120dB
Dynamic power / ダイナミック・パワー	
At each channel into 6Ω	310Wr.m.s.
At each channel into 4Ω	390Wr.m.s.
At each channel into 2Ω	580Wr.m.s.
Envelope distortion / DV・D・歪	Below measurable limit
T. I. M. distortion / TIM歪	Below measurable limit
Through time (at each channel into 8Ω) / 入・出	200V / 1.5Sec.
Rise time / ライズ・タイム	0.5 μSec.
Channel separation (at 1kHz) / チャンネル・セパレーション	90dB
Noise (at each channel into 8Ω) / 残留雑音	0.5mVr.m.s.
Output power of head phone terminal / ヴォル・出力	0.5Vr.m.s. / 33Ω
Load impedance (of speaker terminals at each channel) / 負荷	4Ω ~ 16Ω

● Pre Amplifier Section / 前置増幅器部

Input sensitivity and impedance (at 1kHz) / 入力感度	
PHONO (MC) input terminals	0.3mVr.m.s. / 100kΩ
PHONO (MM) input terminals	2.5mVr.m.s. / 47kΩ
The other input terminals	150mVr.m.s. / 20kΩ
Maximum input capability (at 1kHz) / 最大許容入力	
PHONO (MC) input terminals (less than 0.1% THD)	21mV
PHONO (MM) input terminals (less than 0.01% THD)	210mV
Output voltage and impedance (at 1kHz) / 出力電圧	
TAPE RECORDING terminals	150mVr.m.s. / 47kΩ

Frequency response (at 1W output) / 周波数特性

PHONO (MM) input terminals	20Hz ~ 20kHz ±0.2dB
The other input terminals	D.C. ~ 300kHz ⁺³ dB
Signal to noise ratio (into I.H.F. - A202 network, short circuit) / SN比	
PHONO (MC) input terminals	75dB
PHONO (MM) input terminals	90dB
The other input terminals	110dB
Separation of channels (at 1kHz) / チャンネル・セパレーション	
PHONO (MC) input terminals	50dB
PHONO (MM) input terminals	65dB
The others input terminals	85dB
Separation of the other sources (at 1kHz) / クロス・トーン	
TUNER ⇔ PHONO (MM)	85dB
CD, TAPE ⇔ PHONO (MM)	90dB
CD, TUNER ⇔ TAPE	90dB
TAPE ⇔ TAPE	90dB
Tone control / トーン・コントロール	
Bass (at 50Hz) & Treble (at 15kHz)	+6dB ~ -6dB
Subsonic filter / サブソニック・フィルター	cut off 16Hz, slope 6db / oct.
Roudness filter (at -30dB point of master volume) / ローランド・ス	+6dB at 50Hz, +4dB at 10kHz

● General Section (The others) / 総合部

External Maximum consumption power of extra outlet / A.C. 7Pin 1Pin	
Switched maximum	100W
Unswitched total maximum	250W
Power requirements / 供給電源	
AU - Ⓔ907MR	A.C. 100V / 50Hz or 60Hz
AU - Ⓔ907MRX	A.C. 110V / 50Hz or 60Hz
or A.C. 230V / 50Hz or 60Hz	
Power consumption / 定格消費電力	
AU - Ⓔ907MR	400W
AU - Ⓔ907MRX	800W
Dimensions (Package dimensions) / 外形寸法 (梱包時)	
Width	471mm (579mm)
Height	163mm (267mm)
Depth	452mm (537mm)
Weight of solid (Packet weight) / 本体質量 (梱包時質量)	33.0kg (35.0kg)
Bulk (Volume of packet) / 梱包寸数	2-11cft / 0.083m³

- Design and specifications subject to change without notice for improvements.
- Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selector.

•本機の意匠及び仕様の一部は、改良の為、予告無く変更する事があります。

1-2. AU - α707MR and AU - α707MRX

● Main Amplifier Section / 主増幅器部

Power band width / 帯域実効出力 (at 10Hz ~ 20kHz & lesser than 0.003% total harmonics distortion)	
At each channel into 8Ω	130Wr.m.s.
At each channel into 6Ω	160Wr.m.s.
Total harmonics distortion (at 10Hz~20kHz) / 全高調波歪率	
At 130W output each channel into 8Ω	0.003%
At 85W output each channel into 6Ω	0.005%
Inter modulations distortion (at 60Hz: 7kHz = 4: 1 input) / 交互調歪率	
At 130W output each channel into 8Ω	0.003%
Dumping factor (at 1kHz into 8Ω) / ダンプ・ファクタ	150
Frequency response (at 1W output) / 周波数特性	

D.C. ~ 300kHz ± 0 dB	
Input sensitivity and impedance (at 1kHz) / 入力感度 .. 1Vr.m.s. / 5kΩ	
Signal to noise ratio (at 1W into I.H.F. - A202 network) / SN比	
Short circuit (Short their input terminals)	120dB
Dynamic power / ダイナミック・パワー	

At each channel into 6Ω	210Wr.m.s.
At each channel into 4Ω	320Wr.m.s.
At each channel into 2Ω	405Wr.m.s.
Envelope distortion / DA・D・歪	Below measurable limit
T. I. M. distortion / TIM歪	Below measurable limit
Through late (at each channel into 8Ω) / 遅延	0.5μSec.
Rise time / ライズ・タイム	0.5μSec.
Channel separation (at 1kHz) / チャンネル・セパレーション	90dB
Noise (at each channel into 8Ω) / 残留雑音 ... 0.5mVr.m.s.	
Output power of head phone terminal / ヘッドホン出力	0.5Vr.m.s. / 33Ω
Load impedance (of speaker terminals at each channel) / 負荷	
Each system ("A" system or "B" system)	4Ω ~ 16Ω
Both systems ("A" system and "B" system)	8Ω ~ 16Ω

● Pre Amplifier Section / 前置増幅器部

Input sensitivity and impedance (at 1kHz) / 入力感度	
PHONO (MC) input terminals	0.3mVr.m.s. / 100kΩ
PHONO (MM) input terminals	2.5mVr.m.s. / 47kΩ
The other input terminals	150mVr.m.s. / 20kΩ
Maximum input capability (at 1kHz) / 最大許容入力	
PHONO (MC) input terminals (less than 0.1% THD)	21mV
PHONO (MM) input terminals (less than 0.01% THD)	210mV
Output voltage and impedance (at 1kHz) / 出力電圧	
TAPE RECORDING terminals	150mVr.m.s. / 47kΩ

Frequency response (at 1W output) / 周波数特性	
PHONO (MM) input terminals	20Hz ~ 20kHz ± 0.2 dB
The other input terminals	D.C. ~ 200kHz ± 0 dB
Signal to noise ratio (into I.H.F. - A202 network, short circuit) / SN比	
PHONO (MC) input terminals	70dB
PHONO (MM) input terminals	88dB
The other input terminals	110dB
Separation of channels (at 1kHz) / チャンネル・セパレーション	
PHONO (MC) input terminals	50dB
PHONO (MM) input terminals	65dB
The others input terminals	85dB
Separation of the other sources (at 1kHz) / クロス・トーク	
TUNER $\Leftrightarrow$ PHONO (MM)	85dB
CD, TAPE $\Leftrightarrow$ PHONO (MM)	90dB
CD, TUNER $\Leftrightarrow$ TAPE	90dB
TAPE $\Leftrightarrow$ TAPE	90dB
Tone control / トーン・コントロール	
Bass (at 50Hz) & Treble (at 15kHz)	+6dB ~ -6dB
Subsonic filter / サブソニック・フィルター	cut off 16Hz, slope 6db / oct.
Roughness filter (at -30dB point of master volume) / ラウドネス	+6dB at 50Hz, +4dB at 10kHz

● General Section (The others) / 総合部

External Maximum consumption power of extra outlet / A.C. プラグ・レタ	
Switched maximum	100W
Unswitched total maximum	250W
Power requirements / 供給電源	
AU - α707MR	A.C. 100V / 50Hz or 60Hz
AU - α707MRX	A.C. 110V / 50Hz or 60Hz
	or A.C. 230V / 50Hz or 60Hz
Power consumption / 定格消費電力	
AU - α707MR	330W
AU - α707MRX	630W
Dimensions (Package dimensions) / 外形寸法 (梱包時)	
Width	466mm (579mm)
Height	162mm (267mm)
Depth	452mm (537mm)
Weight of solid (Packet weight) / 本体質量 (梱包時質量)	23.5kg (25.0kg)
Bulk (Volume of packet) / 梱包寸数	2-11cm / 0.083m ³

•Design and specifications subject to change without notice for improvements.

•Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selector.

•本機の意匠及び仕様の一部は、改良の為、予告無く変更する事が有ります。

1-3. AU - 607MR and AU - 607MRX

● Main Amplifier Section / 主増幅器部

Power band width / 帯域実効出力
 (at 10Hz ~ 20kHz & lesser than 0.003% total harmonics distortion)
 At each channel into 8Ω 90Wr.m.s.
 At each channel into 6Ω 105Wr.m.s.
 Total harmonics distortion (at 10Hz~20kHz) / 全高調波歪率
 At 90W output each channel into 8Ω 0.003%
 At 52.5W output each channel into 6Ω 0.005%
 Inter modulations distortion (at 60Hz: 7kHz = 4:1 input) / 混変調歪率
 At 90W output each channel into 8Ω 0.003%
 Dumping factor (at 1kHz into 8Ω) / ダンピング係数 150
 Frequency response (at 1W output) / 周波数特性
 D.C. ~ 300kHz ±dB
 Input sensitivity and impedance (at 1kHz) / 入力感度 ... 1Vr.m.s. / 5kΩ
 Signal to noise ratio (at 1W into I.H.F. - A202 network) / SN比
 Short circuit (Short their input terminals) 120dB
 Dynamic power / ダイナミックパワー
 At each channel into 6Ω 155Wr.m.s.
 At each channel into 4Ω 220Wr.m.s.
 At each channel into 2Ω 280Wr.m.s.
 Envelope distortion / 包絡歪 Below measurable limit
 T. I. M. distortion / TIM歪 Below measurable limit
 Through late (at each channel into 8Ω) / 遅延 180V / μSec.
 Rise time / ライズ・タイム 0.6 μSec.
 Channel separation (at 1kHz) / チャンネル・セパレーション 85dB
 Noise (at each channel into 8Ω) / 残留雑音 0.5mVr.m.s. / 33Ω
 Output power of head phone terminal / ヴォルテージ出力 0.5Vr.m.s. / 33Ω
 Load impedance (of speaker terminals at each channel) / 負荷
 Each system ("A" system or "B" system) 4Ω ~ 16Ω
 Both systems ("A" system and "B" system) 8Ω ~ 16Ω

Frequency response (at 1W output) / 周波数特性
 PHONO (MM) input terminals 20Hz ~ 20kHz ±0.2dB
 The other input terminals D.C. ~ 200kHz ±3dB
 Signal to noise ratio (into I.H.F. - A202 network, short circuit) / SN比
 PHONO (MC) input terminals 70dB
 PHONO (MM) input terminals 88dB
 The other input terminals 110dB
 Separation of channels (at 1kHz) / チャンネル・セパレーション
 PHONO (MC) input terminals 50dB
 PHONO (MM) input terminals 65dB
 The others input terminals 85dB
 Separation of the other sources (at 1kHz) / クロス・トーク
 TUNER ⇄ PHONO (MM) 85dB
 CD, TAPE ⇄ PHONO (MM) 90dB
 CD, TUNER ⇄ TAPE 90dB
 TAPE ⇄ TAPE 90dB
 Tone control / トーン・コントロール
 Bass (at 50Hz) & Treble (at 15kHz) +6dB ~ -6dB
 Subsonic filter / サブ・フィルター cut off 16Hz, slope 6db / oct.
 Roudness filter (at -30dB point of master volume) / ラウトネス
 +6dB at 50Hz, +4dB at 10kHz

● General Section (The others) / 総合部

External Maximum consumption power of extra outlet / A.C. 70V・10V
 Switched maximum 100W
 Unswitched total maximum 250W
 Power requirements / 供給電源
 AU - 607MR A.C. 100V / 50Hz or 60Hz
 AU - 607MRX A.C. 110V / 50Hz or 60Hz
 or A.C. 230V / 50Hz or 60Hz
 Power consumption / 定格消費電力
 AU - 607MR 250W
 AU - 607MRX 340W
 Dimensions (Package dimensions) / 外形寸法 (梱包時)
 Width 430mm (543mm)
 Height 162mm (267mm)
 Depth 452mm (537mm)
 Weight of solid (Packet weight) / 本体質量 (梱包時質量)
 18.0kg (20.0kg)
 Bulk (Volume of packet) / 梱包寸数 2.9cf / 0.078m³

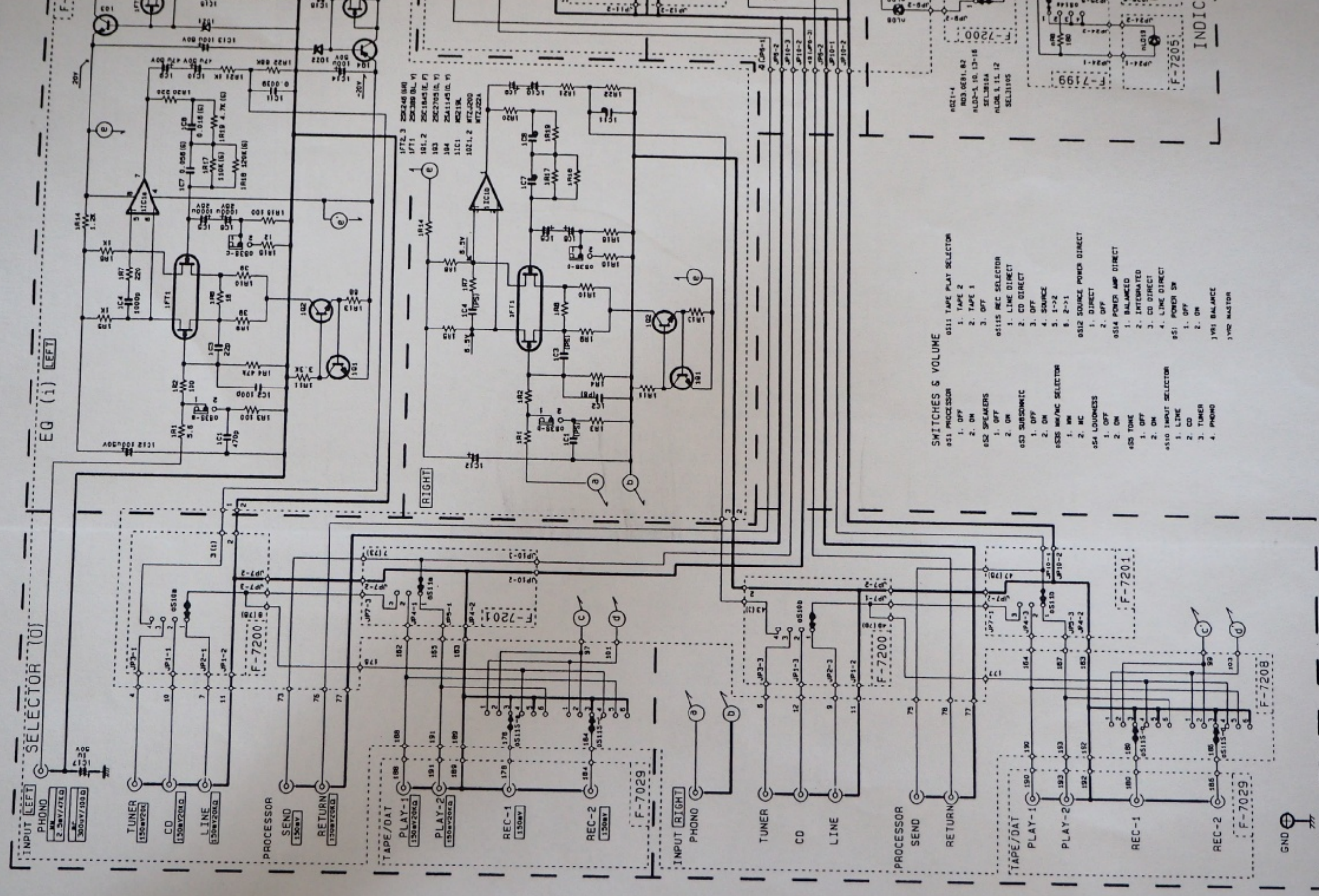
● Pre Amplifier Section / 前置増幅器部

Input sensitivity and impedance (at 1kHz) / 入力感度
 PHONO (MC) input terminals 0.3mVr.m.s. / 100Ω
 PHONO (MM) input terminals 2.5mVr.m.s. / 47kΩ
 The other input terminals 150mVr.m.s. / 20kΩ
 Maximum input capability (at 1kHz) / 最大許容入力
 PHONO (MC) input terminals (less than 0.1% THD) 21mV
 PHONO (MM) input terminals (less than 0.01% THD) 210mV
 Output voltage and impedance (at 1kHz) / 出力電圧
 TAPE RECORDING terminals 150mVr.m.s. / 47kΩ

●Design and specifications subject to change without notice for improvements.
 ●Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selector.
 ●本機の意匠及び仕様の一部は、改良の為、予告無く変更する事があります。

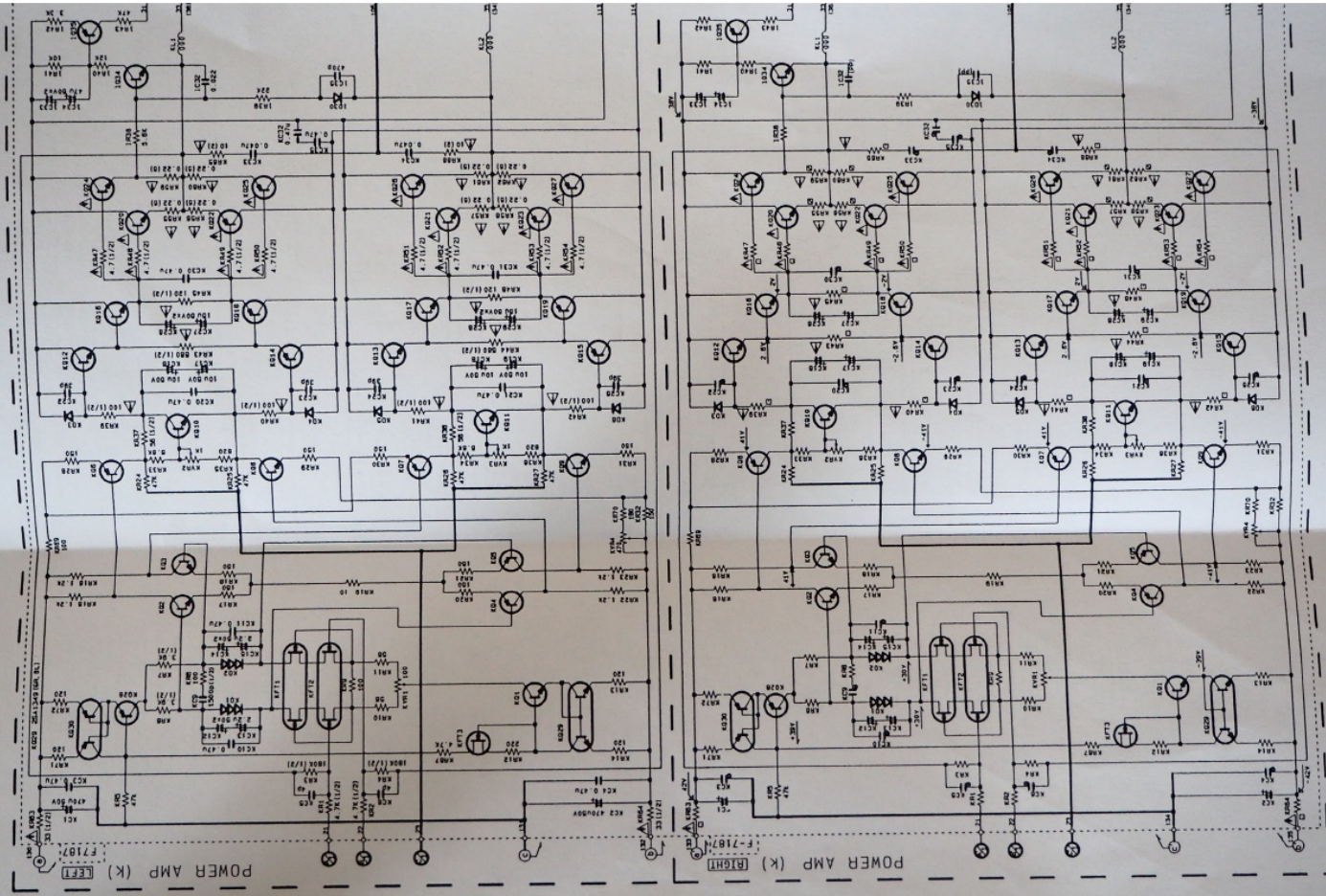
2. SCHEMATIC DIAGRAM / 回路図

2-1-1. PRE AMPLIFIER CIR

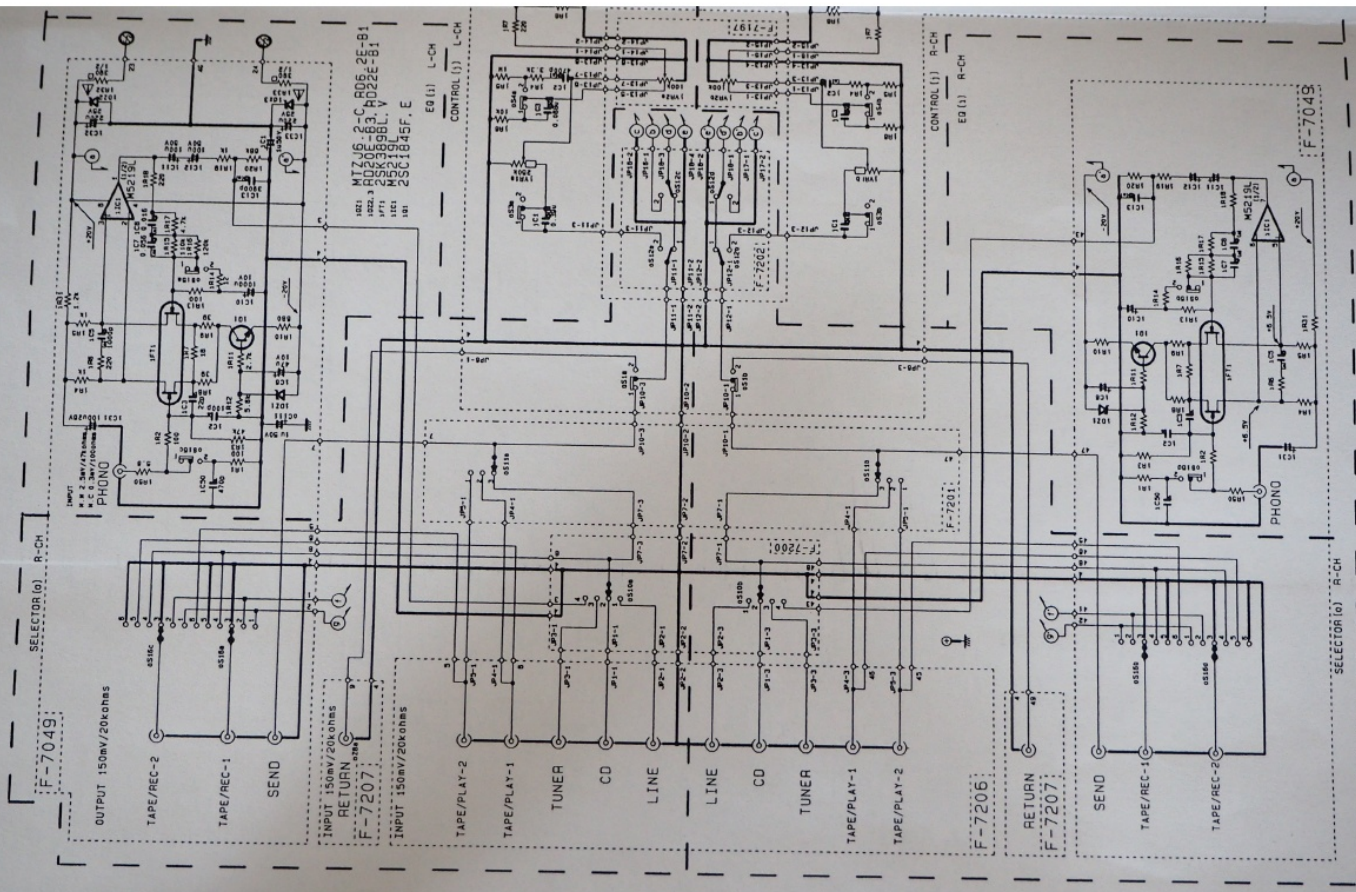


α907MR

2-1-2. MAIN AMPLIFIER CIRCUIT & POWER SUPPLY CIRCUIT / パワーアンプ&



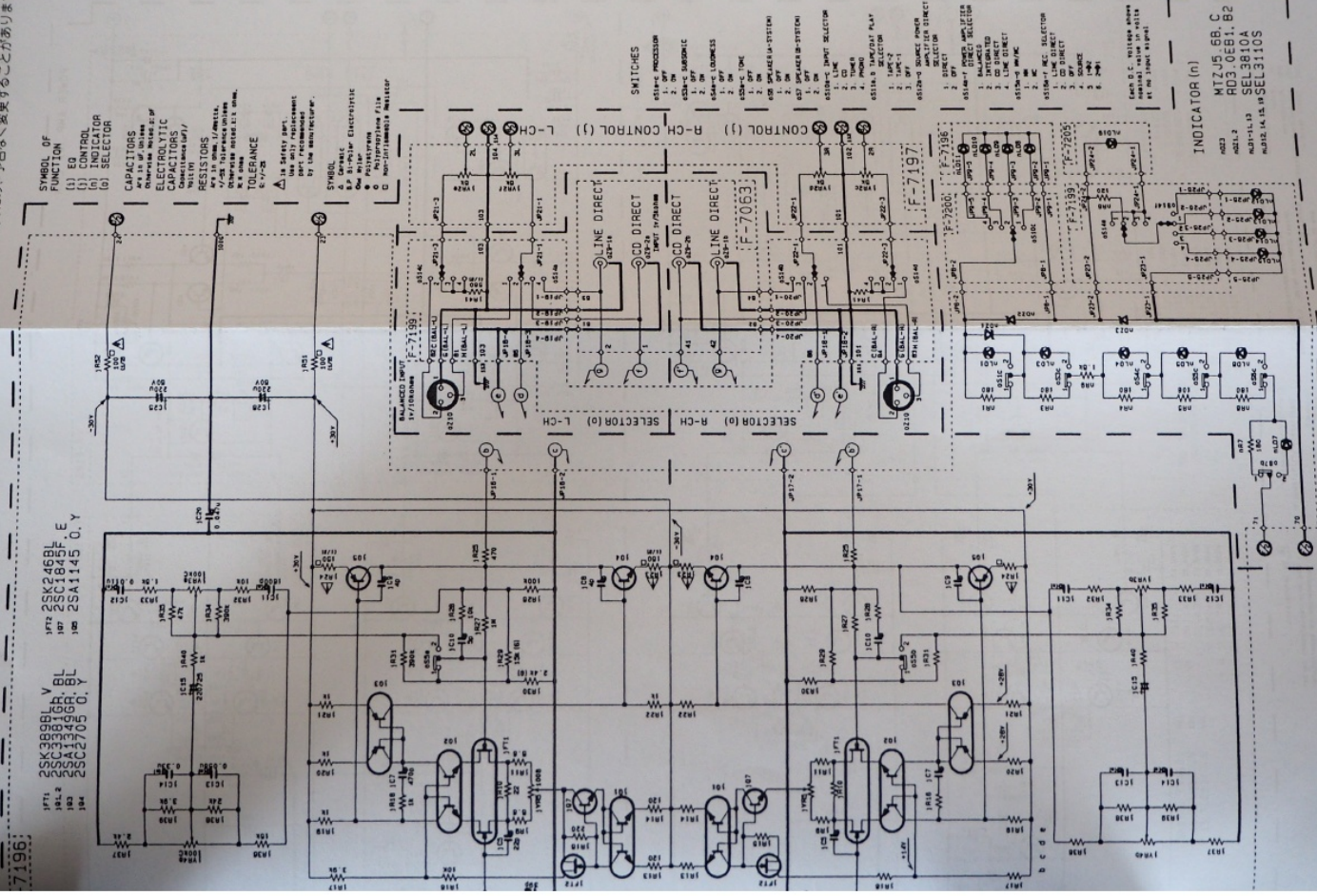
2-2-1. PRE AMPLIFIER CIRCUIT / プリ・アンプ回路



α707MR

α707MRX

- Design and specifications subject to change without notice for improvements.
- 本機の意匠及び仕様の一部は、改良のため、予告なく変更することがあります。



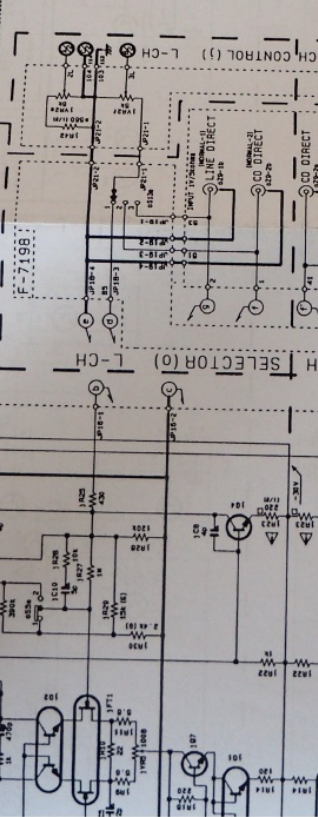
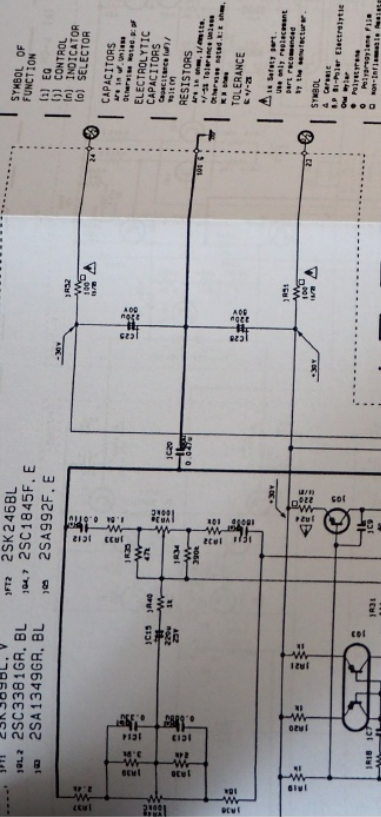
7

α707MR

[illegible]

- Design and specifications subject to changes without notice for improvements.
- 本機の型名及び仕様の一部は、改良のため、予告なく変更することがあります。

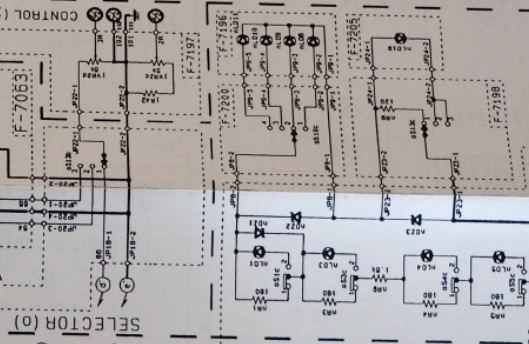
96 1PT1 2SK369BL, V 1PT2 2SK246BL
18L2 2SC33816R, BL 18L3 2SC1845F, E
18D 2SA13496R, BL 18E 2SA992F, E



Each D.C. voltage shown is the average value of the ripple voltage at the output of the filter.

SWITCHES

- 1. LINE DIRECT
- 2. LINE DIRECT
- 3. LINE DIRECT
- 4. LINE DIRECT
- 5. LINE DIRECT
- 6. LINE DIRECT
- 7. LINE DIRECT
- 8. LINE DIRECT
- 9. LINE DIRECT
- 10. LINE DIRECT
- 11. LINE DIRECT
- 12. LINE DIRECT
- 13. LINE DIRECT
- 14. LINE DIRECT
- 15. LINE DIRECT
- 16. LINE DIRECT
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- 88. LINE DIRECT
- 89. LINE DIRECT
- 90. LINE DIRECT
- 91. LINE DIRECT
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- 96. LINE DIRECT
- 97. LINE DIRECT
- 98. LINE DIRECT
- 99. LINE DIRECT
- 100. LINE DIRECT



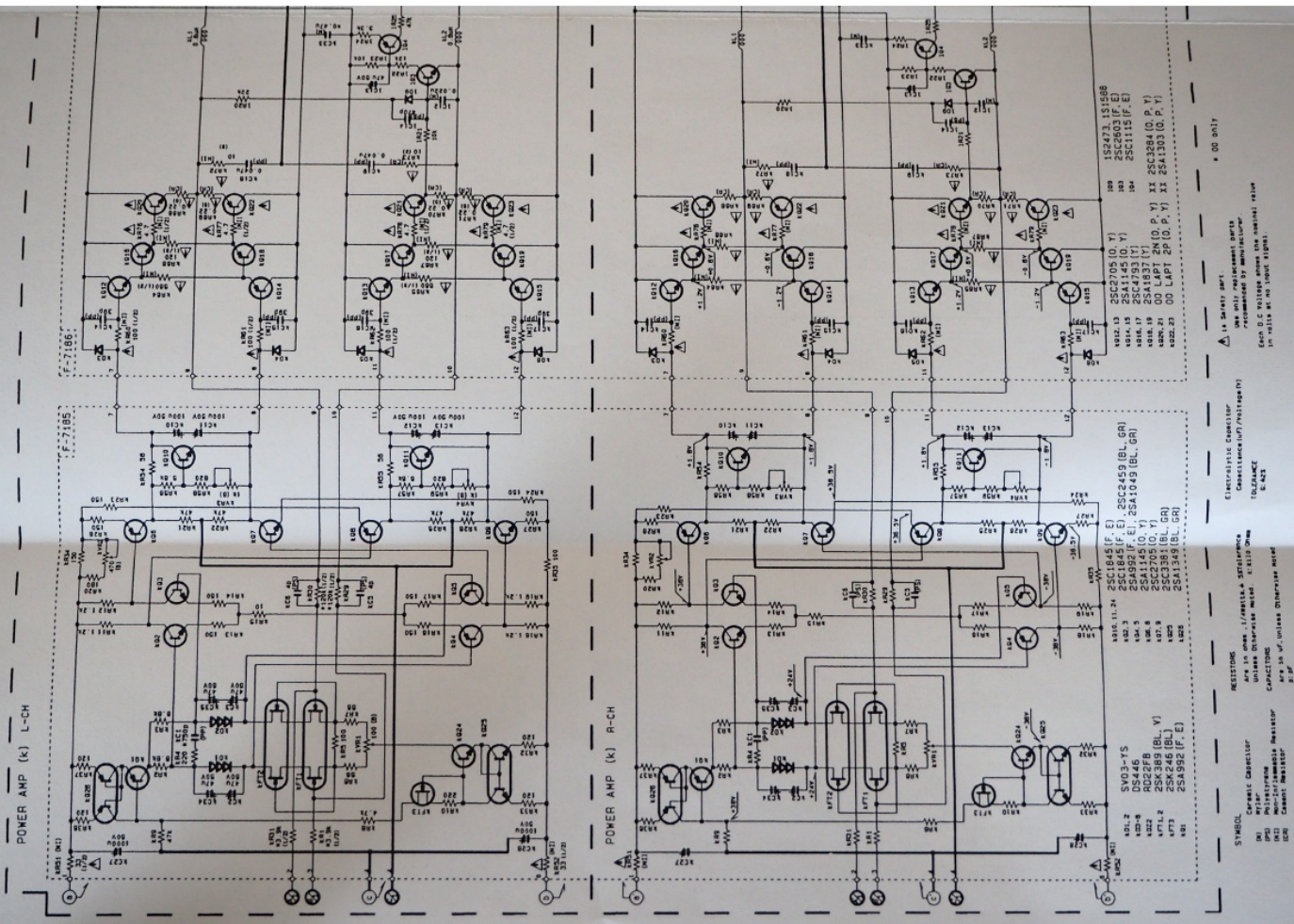
R03 0E-B1, B2
SEL3810A
SEL3110S
INDICATOR (n)

INDICATOR (n)

607MRX

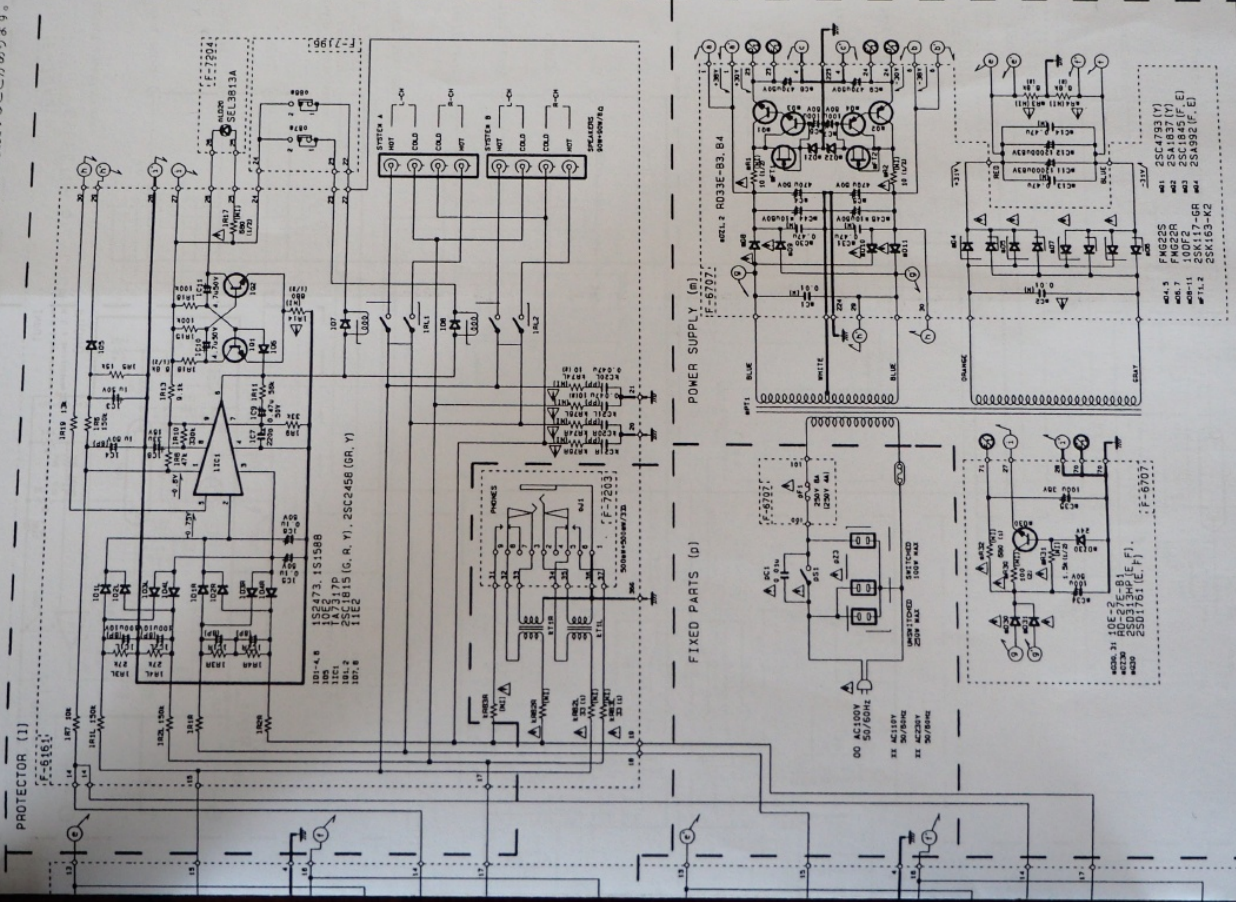
607MR

2-3-2. MAIN AMPLIFIER CIRCUIT & POWER SUPPLY CIRCUIT / パワーアンプ及び



電源回路

- Design and specifications subject to change without notice for improvements.
- 本機の進取及び仕様の一部は、改良のため、予告なく変更することがあります。



3. ADJUSTMENT / 調整方法

3-1. AU-907MR and AU-907MRX

• Note / 条件 : 1. an Atmosphere Temp / 周囲温度

2. VOLUME / 音量調整器 18° C-28° C
 3. SPEAKERS switch / スピーカー・スイッチ Minimum / 最小
 4. POWER AMP. DIRECT OPERATION switch Pushed On / 入
 パワー・アンプ・ダイレクト操作スイッチ Normal
 5. And Setting " Direct Current Millivolt Meter " with " Probe " " Normal "

併せて、直流小電圧計と探針器を準備します。

3-1-1. Bias Current of Main Amplifiers Adjustment

/ 主増幅器のバイアス電流調整

- Adjust the bias current of main amplifiers on both left channel and right channel!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Hot side (Non Inverting) 非反転増幅器側	Put the high impedance probe between " Hot Out " terminal and " Hot Bias " terminal.	KVR3	8.8mV±1mV	POWE AMP. DIRECT OPE. "NORMAL"
2	Cold side (Inverting) 反転増幅器側	Put the high impedance Probe between " Cold Out " terminal and " Cold Bias " terminal.	KVR2	8.8mV±1mV	パワー・アンプ ダイレクト操作 "NORMAL"
3	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

3-1-2. Direct Current Off Set Voltage of Main Amplifiers Adjustment

/ 主増幅器の直流中点電位調整

- Adjust the bias current of main amplifiers on both left channel and right channel!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Hot side (Non Inverting) 非反転増幅器側	Put the high impedance probe between " Hot Out " terminal and " Hot Bias " terminal.	KVR4	0mV±30mV	POWE AMP. DIRECT OPE. "NORMAL"
2	Cold side (Inverting) 反転増幅器側	Put the high impedance Probe between " Hot Out " (speaker) terminal and " Cold Out " (speaker) terminal.	KVR1	0mV±30mV	パワー・アンプ ダイレクト操作 "NORMAL"
3	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

3-1-3. Direct Current Off Set Voltage of Pre Amplifiers Adjustment ／ 前置増幅器の直流中点電位調整

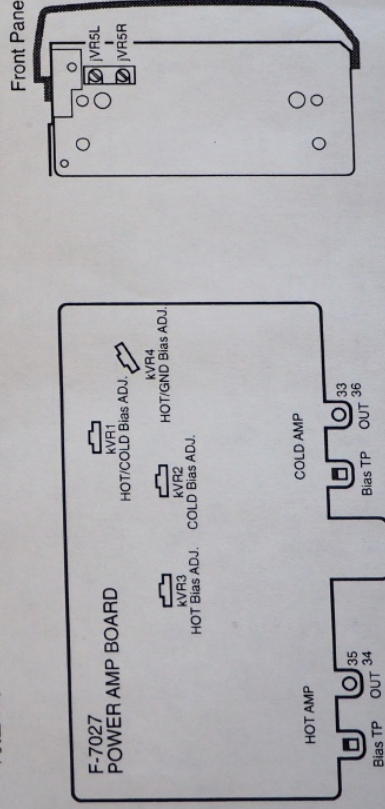
• Adjust the off set voltage of pre amplifiers on both left channel and right channel!!

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Pre Amp. Off Set Voltage 前置増幅器中点 電位調整	Put the high impedance probe between " Hot Out " (speaker) terminal and " Cold Out " (speaker) terminal.	I VR5	0mV±30mV	Input Selector "CD" Input Terminal "Short"
2	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

CAUTION : Must not Touch (Electrically Short) Screw Driver and Chassis if be Using it Made of Metals.
注意 : 金属製のドライバーを使用する場合は、ドライバーの金属部分が調整穴の筐体に触れない様にして下さい。

3-1-4. Pre Heating this amprifier and the Real Adjustment ／ 増幅器の事前加熱（熱平衡状態化）と本調整

- **Note** / 条件 : 1. Input Selector / 入力切り替え " CD "
2. Speaker Terminals Connecting Dummy Load at 8Ω on Both Channels.
／ スピーカー端子 8Ωの負荷抵抗器を両方のチャンネルに接続する。
3. Put the feed " Sine Wave " signal at 20kHz from " CD " terminals on both channels.
／ 20kHzの正弦波信号を" CD "端子より両チャンネルに印加します。
4. Turn " Volume " knob to clockwise to get 16.8Vr.m.s. (35W / 8Ω) output on speaker terminals
both channels.
両方のスピーカー端子より 16.8V (実効値) [35W / 8Ω] の出力が得られる様に時計廻り方向にボリュームつまみを廻します。
5. Re-adjust from " 3-1-1. " to " 3-1-3. " twice for real adjustment to the amplifier.
本調整の為、" 3-1-1. " から " 3-1-3. "迄を二度再調整します。



④607MR

④707MR

④607MRX

④707MRX

3-2. AU-④707MR, AU-④607MR, AU-④707MRX and AU-④607MRX

- Note / 条件 : 1. an Atmosphere Temp / 周囲温度 18°C-28°C
- 2. VOLUME / 音量調節器 Minimum / 最小
- 3. SPEAKERS " A " switch / スピーカー-Aスイッチ Pushed On / 入
- 4. POWER AMP. DIRECT OPERATION switch Normal
- パワー・アンプ・ダイレクト操作スイッチ " Normal "
- 5. And Setting " Direct Current Millivolt Meter " with " Probe ",
併せて、直流小電圧計と探針器を準備します。

3-2-1. Bias Current of Main Amplifiers Adjustment

/ 主増幅器のバイアス電流調整

- Adjust the bias current of main amplifiers on both left channel and right channel.!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Hot side (Non Inverting) 非反転増幅器側	Put the high impedance probe between " Hot Out " terminal and " Hot Emitter " terminal.	KVR3	10mV±1mV	POWER AMP DIRECT OPE. "NORMAL"
2	Cold side (Inverting) 反転増幅器側	Put the high impedance probe between " Cold Out " terminal and " Cold Emitter " terminal.	KVR4	10mV±1mV	パワー・アンプ ダイレクト操作 "NORMAL"
3	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

COMMENTS : Test Pin Array No. 1 is " Cold Out ", No. 2 is " Cold Emitter ", No. 3 is " Grand ", No. 4 is " Hot Emitter ", No. 5 is " Hot Out " .
注 釈 : テスト・ピン番号 1 番は " Cold Out ", 2 番は " Cold Emitter ", 3 番は " Grand ", 4 番は " Hot Emitter ", 5 番は " Hot Out " です。

3-2-2. Direct Current Off Set Voltage of Main Amplifiers Adjustment

/ 主増幅器の直流中点電位調整

- Adjust the bias current of main amplifiers on both left channel and right channel.!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Hot side (Non Inverting) 非反転増幅器側	Put the high impedance probe between " Hot Out " (speaker) terminal and " GND " terminal.	KVR2	0mV±30mV	POWER AMP DIRECT OPE. "NORMAL"
2	Cold side (Inverting) 反転増幅器側	Put the high impedance probe between " Cold Out " (speaker) terminal and " Cold Out " (speaker) terminal.	KVR1	0mV±30mV	パワー・アンプ ダイレクト操作 操作スイッチ "NORMAL"
3	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

607MRX

607MRX

607MR

607MR

3-2-3. Direct Current Off Set Voltage of Pre Amplifiers Adjustment ／ 前置増幅器の直流中点電位調整

- Adjust the bias current of main amplifiers on both left channel and right channel!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Pre Amp. Off Set Voltage 前置増幅器中点 電位調整	Put the high impedance probe between " Hot Out " (Speaker) terminal and " Cold Out " (Speaker) terminal.	JVR5	0mV $\pm$ 30mV	Input Selector "CD"
2	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				Input Terminal "Short"

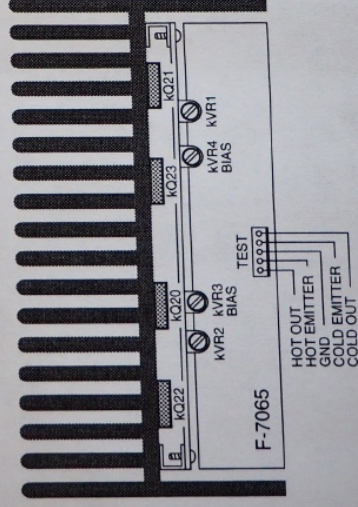
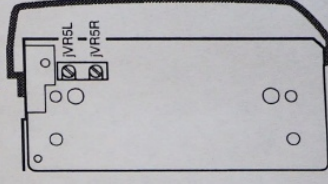
CAUTION : Must not Touch (Electrically Short) Screw Driver and Chassis if be Using it Made of Metals.

注意 : 金属製のドライバーを使用する場合は、ドライバーの金属部分が調整穴の筐体に触れない様にして下さい。

3-2-4. Pre Heating this amplifier and the Real Adjustment ／ 増幅器の事前加熱（熱平衡状態化）と本調整

- **Note / 条件 :** 1. Input Selector / 入力切り替え " CD "
2. Speaker Terminals Connecting Dummy Load at 8 Ω on Both Channels.
／ スピーカー端子 8 Ω の負荷抵抗器を両方のチャンネルに接続する。
3. Put the feed " Sine Wave " signal at 20kHz from " CD " terminals on both channels.
／ 20kHz の正弦波信号を " CD " 端子より両チャンネルに印加します。
4. Turn " Volume " knob to clockwise to get 16.8Vr.m.s. (35W / 8 Ω) output on speaker terminals both channels.
両方のスピーカー端子より 16.8V (実効値) [35W / 8 Ω] の出力が得られる様に時計廻り方向にボリュームつまみを廻します。
5. Re-adjust from " 3-1-1. " to " 3-1-3. " twice for real adjustment to the amplifier.
本調整の為、" 3-1-1. " から " 3-1-3. " 迄を二度再調整します。

Front Panel



☒607MR

☒707MR

☒907MR

☒607MRX

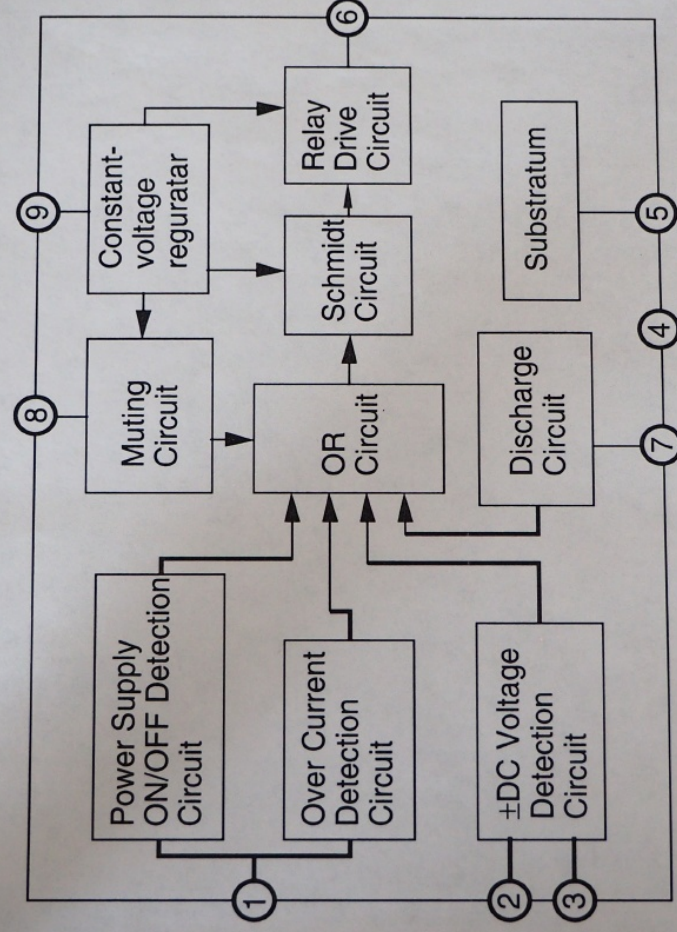
☒707MRX

☒907MRX

4 . INTERIOR BLOCK DIAGRAM & TERMINAL FUNCTION OF ICs

/ 使用 IC の内部ブロック図及び端子機能

- TA7317P <SPEAKER PROTECTION CIRCUIT> / スピーカー保護回路

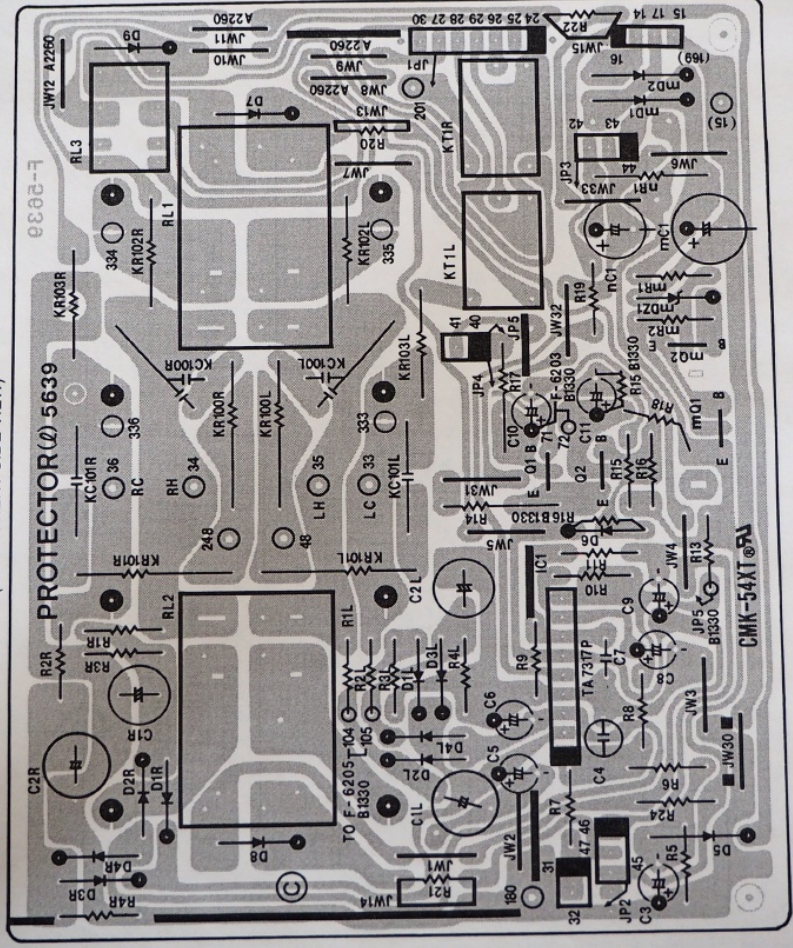


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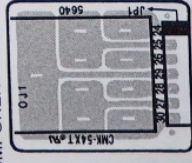
☒907MR

5. PARTS LOCATION ON BOARD ／プリント基板の部品配置図

- F-5639 SPEAKER PROTECTION BOARD / スピーカー保護回路基板
(COMPONENT SIDE VIEW)

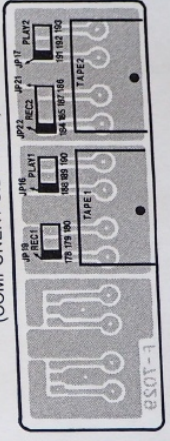


- F-5640 HEAD-PHONE TERMINAL BOARD
／ヘッド・ホン端子基板



(COMPONENT SIDE VIEW)

- F-7029 AUDIO TERMINALS BOARD
／入出力端子基板



α907MRX

5665

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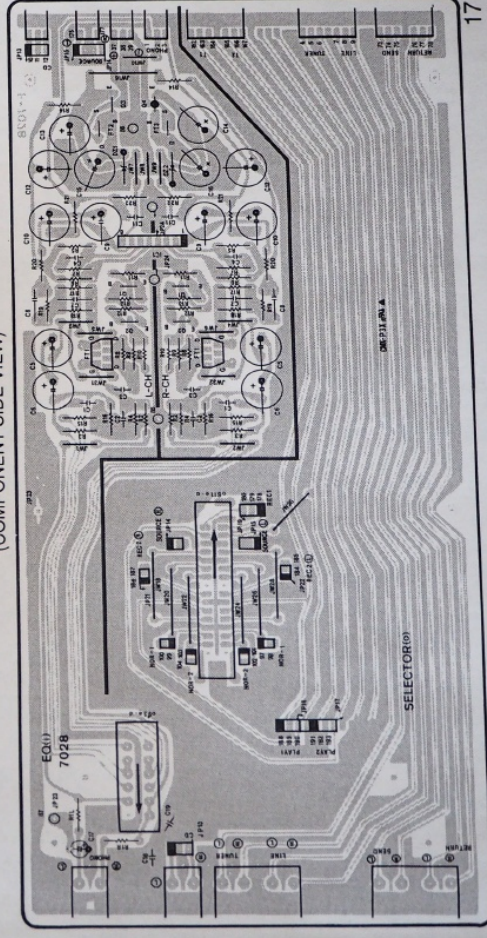
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(COMPONENT SIDE VIEW)



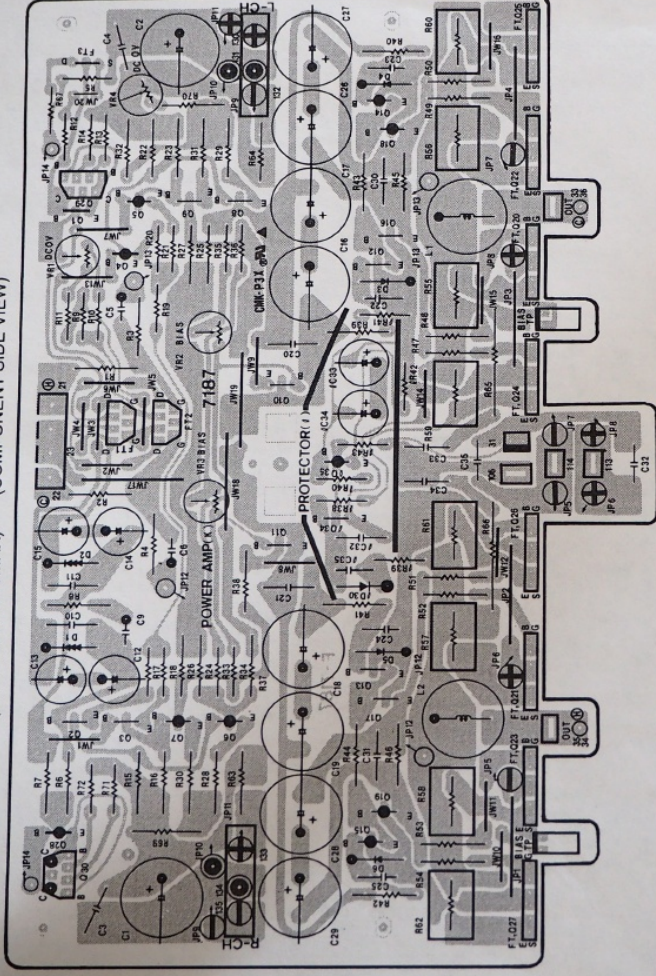
607MRX

607MRX

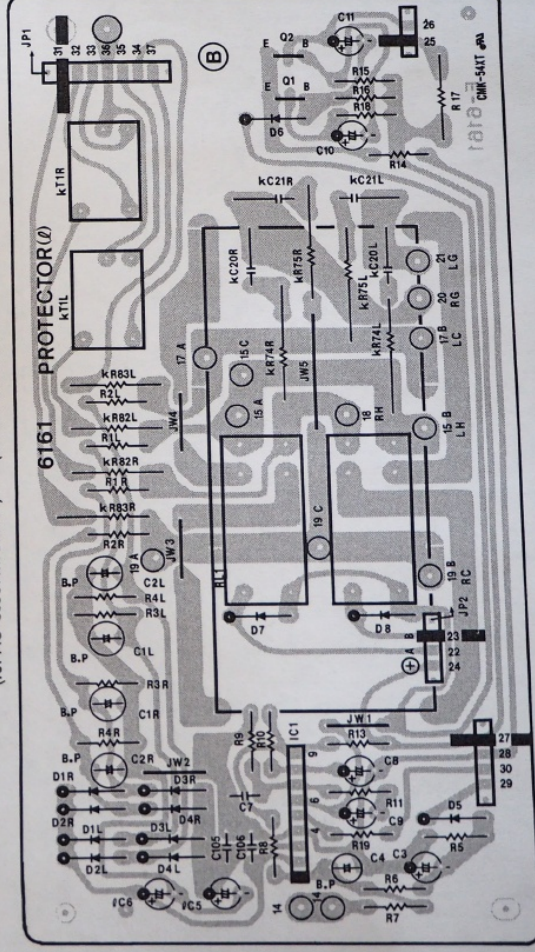
607MR

607MR

● F-7187 MAIN AMPLIFIER BOARD / 主増幅回路基板 (for AU-607MR/MRX) (COMPONENT SIDE VIEW)



● F-6161 SPEAKER PROTECTION BOARD / スピーカー保護回路基板 (for AU-607MR/MRX) (COMPONENT SIDE VIEW)



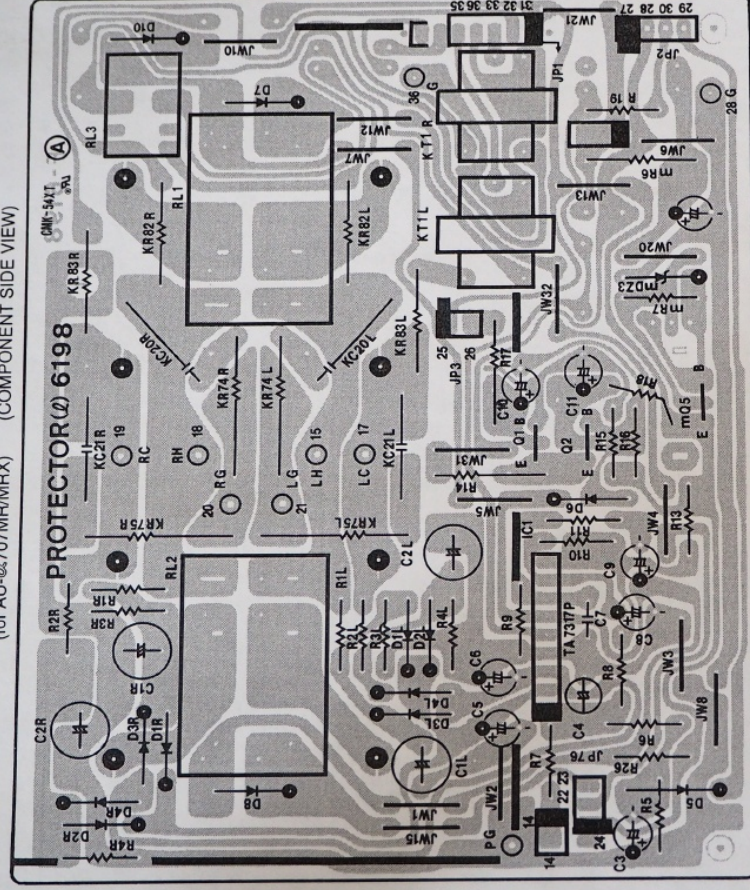
607MR

607MR

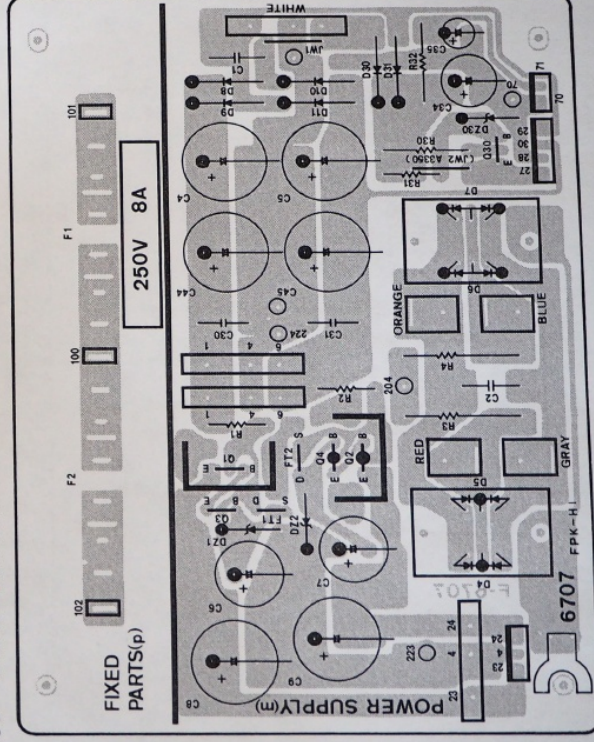
607MRX

607MRX

● F-6198 SPEAKER PROTECTION BOARD / スピーカー保護回路基板
(for AU-607MR/MRX) (COMPONENT SIDE VIEW)



● F-6707 POWER SUPPLY BOARD / 電源基板 (COMPONENT SIDE VIEW)



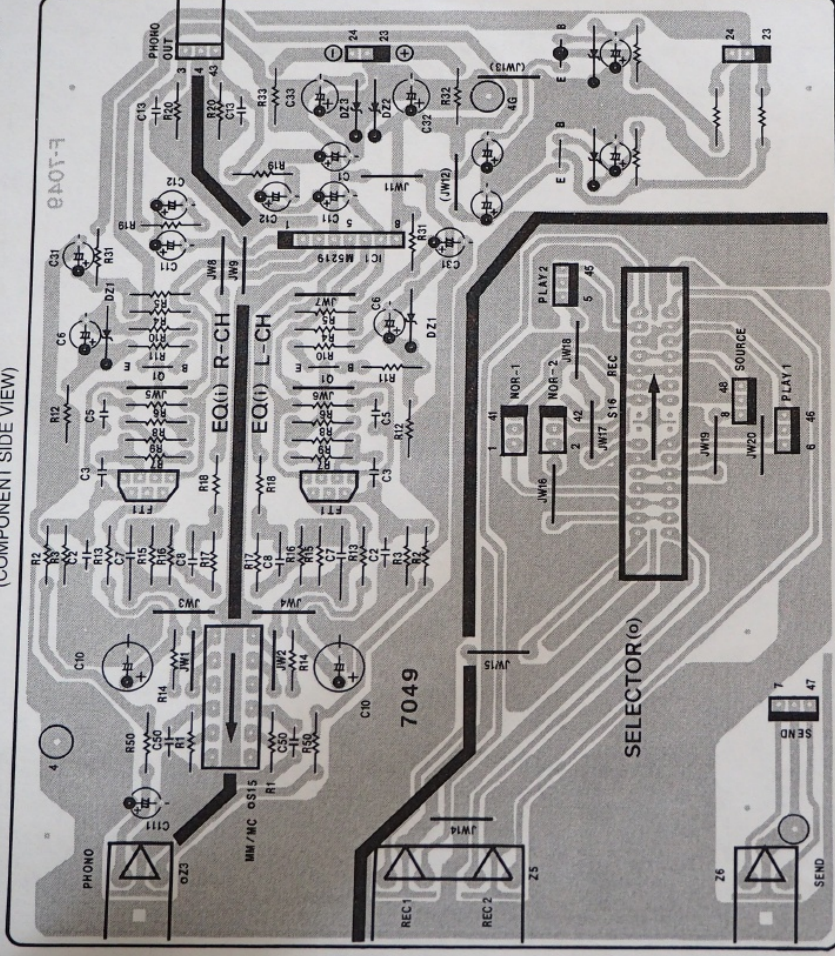
②707MRX

②607MRX

②707MR

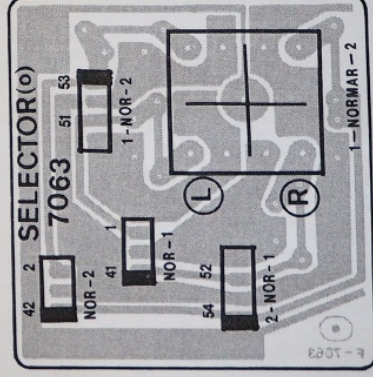
②607MR

● F-7049 PHONO EQUALIZATION AMPLIFIER BOARD / イコライザー基板
(COMPONENT SIDE VIEW)



● F-7063 INPUT TERMINALS BOARD / 入力端子基板

(for AU-②707MR/MRX & AU-②607MR/MRX) (COMPONENT SIDE VIEW)



607MR

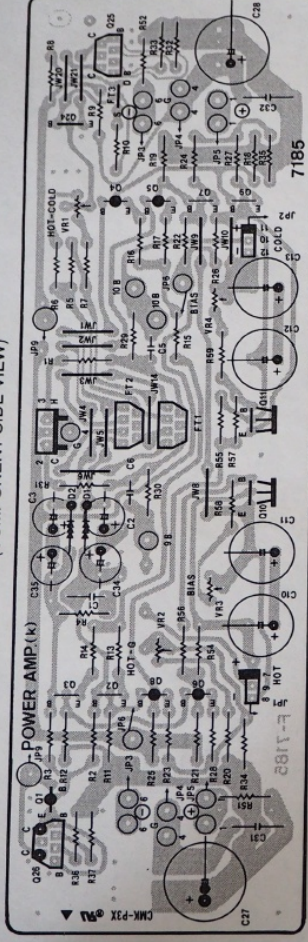
607MR

607MRX

607MRX

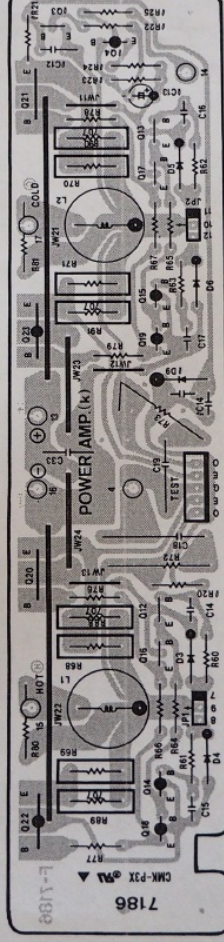
● F-7185 DRIVER STAGE of MAIN AMPLIFIER BOARD / 主增幅回路基板

(COMPONENT SIDE VIEW)



● F-7186 POWER STAGE of MAIN AMPLIFIER BOARD / 主增幅回路基板

(COMPONENT SIDE VIEW)



②907MRX

②707MRX

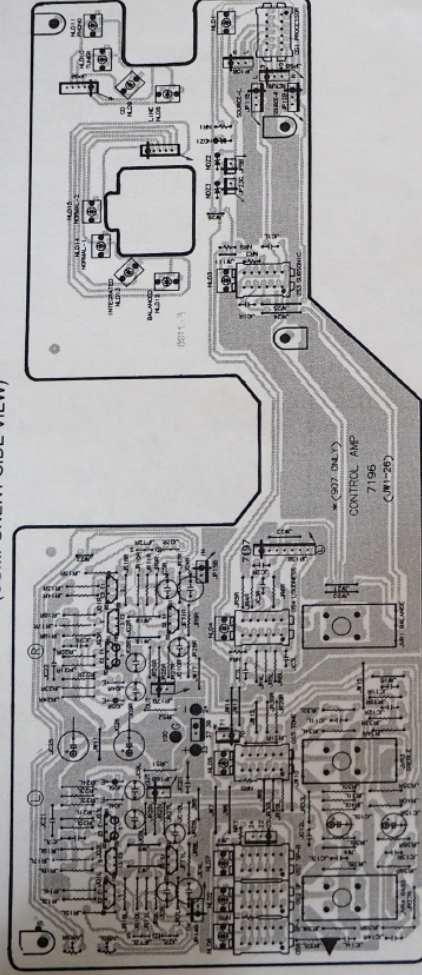
②907MR

②707MR

②607MR

● F-7196 PRE AMPLIFIER BOARD / 前置増幅回路基板

(COMPONENT SIDE VIEW)



607MR

707MR

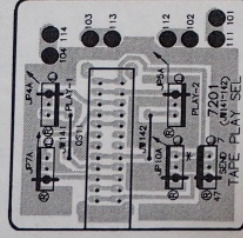
907MR

607MRX

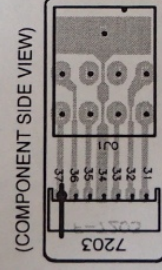
707MRX

907MRX

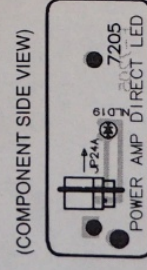
- F-7201 TAPE MONITOR SELECT BOARD
/ テープ系入力切換基板
(COMPONENT SIDE VIEW)



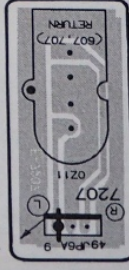
- F-7203 HEAD-PHONE TERMINAL BOARD
/ ヘッド・ホン端子基板
(COMPONENT SIDE VIEW)



- F-7205 POWER / PROTECTION
INDICATE BOARD
/ 電源・保護表示基板
(COMPONENT SIDE VIEW)



- F-7207 INPUT TERMINALS BOARD
/ 入力端子基板
(for AU-607MR/MRX & AU-607MR/MRX)
(COMPONENT SIDE VIEW)

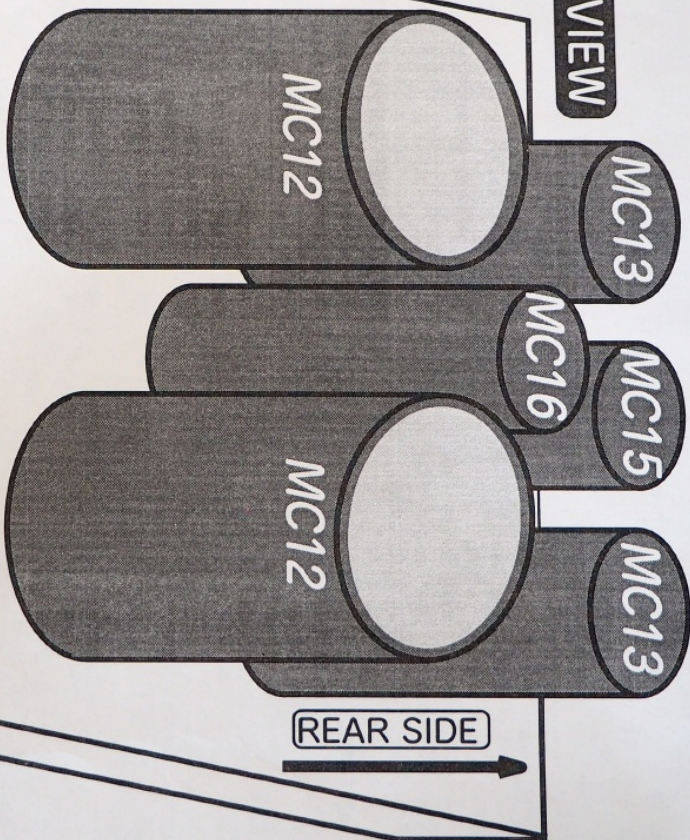


907MR

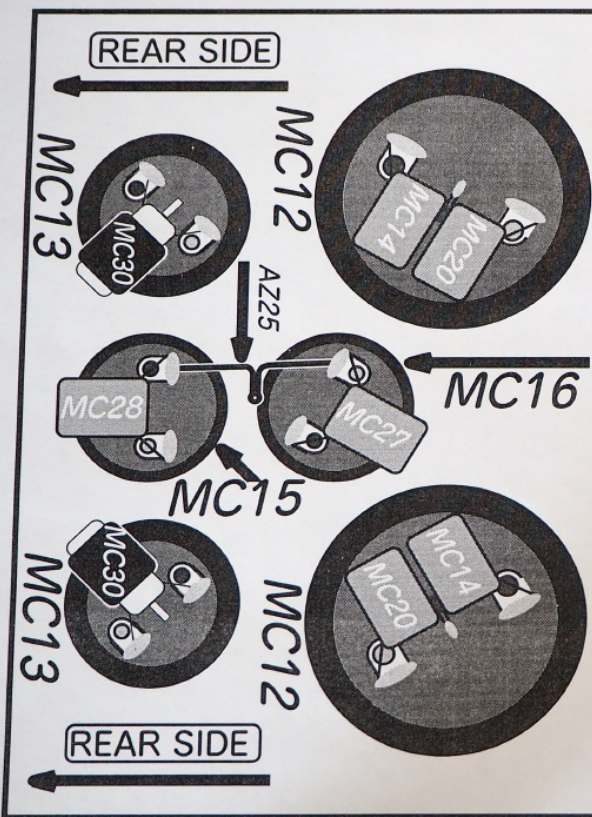
907MRX

● Layout of Capacitors 907MR & 907MRX

TOP VIEW



BOTTOM VIEW

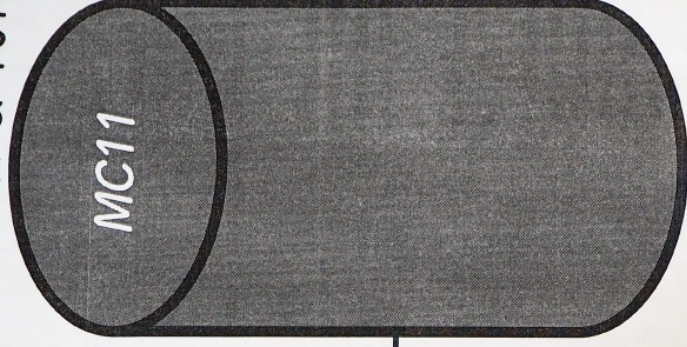
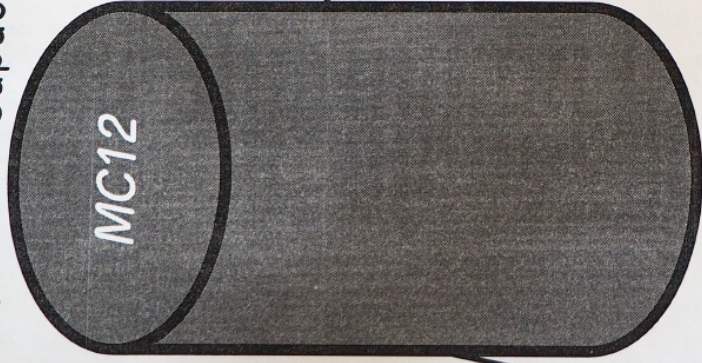


BOTTOM VIEW

Ⓢ707MR

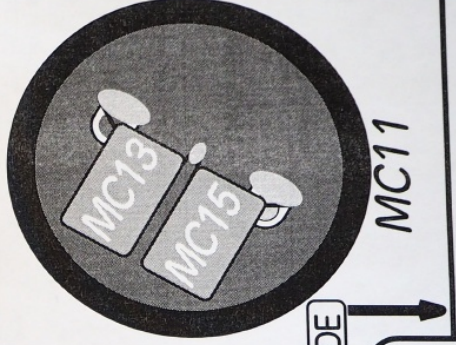
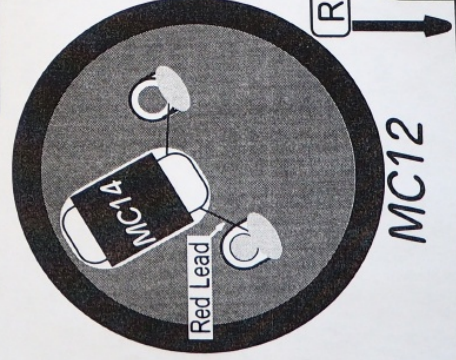
Ⓢ707MRX

- Layout of Capacitors 707MR & 707MRX



TOP VIEW

BOTTOM VIEW



Ⓢ607MRX Ⓢ607MR

● Layout of Capacitors 607MR & 607MRX

